

PROGRAMMING BEGINNER TO ADVANCED

Switch-Case

9. A company announces revised Dearness Allowance (DA) and Special Allowance (SA) for their employees as per tariff given below:

Basic	Dearness Allowance (DA)	Special Allowance(SA)
Up to Rs.10,000	10%	5%
Rs.10,001 – Rs.20,000	12%	8%
Rs.20,001 – Rs.30,000	15%	10%
Rs.30,001 and above	20%	12%

Write a program to accept Basic Salary (BS) of an employee. Calculate and display gross salary.

Gross salary = Basic + DA + SA

Print the information in the given format-

BASIC	DA	SPL. ALLOWANCE	GROSS SALARY
XXXX	XXXX	XXXX	XXXX

10. Write a menu driven program to find the sum of following series depending on the user choosing 1 or 2.

1. $S = 1/4 + 1/8 + 1/12 \dots \text{upto } n \text{ terms.}$

2. $S = 1/1! + 2/2! + 3/3! \dots \text{upto } n \text{ terms.}$

11. Write a menu driven program to accept a number from the user and check whether it is a **BUZZ** number or to accept any two numbers and print the **GCD** of them.

1. Buzz number

2. GCD (Greatest Common Divisor)

12. Write a menu driven program to accept a number from user and check whether it is **Palindrome** or a **Perfect number**.

13. An electronic shop has announced the following seasonal discounts on purchase of certain items.

Category	Discount on Laptop	Discount on Desktop Pc
Up to Rs.25,000	0.0%	5.0%
Rs.25,001 – Rs.57,000	5.0%	7.5%
Rs.57,001 – Rs.1,00,000	7.5%	10.0%
More than Rs.1,00,000	10.0%	15.0%

Write a program based on above criteria, to input name, address , amount of purchase and the type of purchase ('L' for Laptop and 'D' for Desktop). Compute and print the net amount to be paid by a customer with his name and address.

[**Hint:** Discount = (Discount rate/100)*Amount of purchase .

Net amount= Amount of purchase – Discount]